

[Sanitary Cleansing Apparatus and Process]

Abstract

A sanitary cleansing apparatus is provided for attachment to conventional toilets to facilitate posterior part cleansing with a cleaning fluid after use of the toilet. The "First Embodiment" utilizes a conventional toilet flush tank as its cleaning fluid source. A submersible housing, containing functional operating components and cleaning fluid, is inserted into the toilet flush tank. The submersible housing derives its cleaning fluid through a number of communicating fluid entry openings along its vertical axis while the functional operating components consist primarily of a cleaning fluid pump, a pressure release valve, and an electrical heater. A cleaning nozzle is mounted fixed or replaceable and/or moveable or stationary within the confines of a conventional toilet bowl. The cleaning nozzle creates a diffusing stream of cleaning fluid directed toward a projected cleaning space located within the confines of the toilet bowl. A disinfectant and deodorizing fluid is deposited onto the outer nozzle surfaces after every use to positively ensure sanitary conditions. The preferred range of the

cleaning fluid flow is from 10 to 50 milliliters per second at a temperature range from 25°C to 50 °C. The cleaning fluid can consist of water only, water mixed with soap, water mixed with anti-bactericide, water mixed with anti-smelling agents and/or any combination thereof. The "Second Embodiment" utilizes an external cold water source and an external housing containing pump, heater and anti-siphon valve and sufficient free volume for cleaning fluid.. The "Third Embodiment"utilizes a pressurized heating chamber consisting of said pressurized cleaning fluid heating chamber, a cold water input connection, a pressure regulator, a cleaning fluid output connection, a cleaning fluid heater, a power source, a means to control the temperature of said heater; a cleaning fluid valve, a means to provide power to said cleaning fluid valve, and a stationary or moveable and fixed or replaceable cleaning nozzle mounted within the confines of any conventional toilet. Aside from some components being external to a conventional toilet, both embodiments contain all the functionalities described in the first embodiment